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Proposed Maximum Residue Limit

PMRL2014-86

Zoxamide

(publié aussi en français)

27 November 2014

This document is published by the Health Canada Pest Management Regulatory Agency. For further information, please contact:

Publications
Pest Management Regulatory Agency
Health Canada
2720 Riverside Drive
A.L. 6604-E2
Ottawa, Ontario K1A 0K9

Internet: pmra.publications@hc-sc.gc.ca
healthcanada.gc.ca/pmra
Facsimile: 613-736-3758
Information Service:
1-800-267-6315 or 613-736-3799
pmra.infoserv@hc-sc.gc.ca

Canada 

ISSN: 1925-0835 (print)
1925-0843 (online)

Catalogue number: H113-24/2014-86E (print version)
H113-24/2014-86E-PDF (PDF version)

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) is proposing to specify maximum residue limits (MRLs) for zoxamide on tomatoes and Crop Group 9 Cucurbit Vegetables to permit the import and sale of foods containing such residues.

Zoxamide is a fungicide currently registered in Canada for use on potatoes and grapes.

The PMRA must determine the quantity of residues that are likely to remain in or on the imported food commodities when zoxamide is used according to label directions in the exporting country, and that such residues will not be a concern to human health. This quantity is then legally established as an MRL on the corresponding imported commodity. An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

Consultation on the proposed MRLs for zoxamide is being conducted via this document (see Next Steps, the last section of this document). A summary of the field trial data used to support the proposed MRLs can be found in Appendix I.

To comply with Canada's international trade obligations, consultation on the proposed MRLs is also being conducted internationally by notifying the World Trade Organization, as coordinated by the Standards Council of Canada.

The proposed MRLs, to be added to the MRLs already established for zoxamide, are as follows.

Table 1 Proposed Maximum Residue Limits for Zoxamide

Common Name	Residue Definition	MRL (ppm) ¹	Food Commodity
Zoxamide	3,5-Dichloro-N-(3-chloro-1-ethyl-1-methyl-2-oxopropyl)-4-methylbenzamide	2.0	Crop Group 9, Cucurbit Vegetables; Tomatoes

¹ ppm = parts per million

MRLs are proposed for each commodity included in the listed crop groupings in accordance with the Residue Chemistry Crop Groups webpage in the Pesticides and Pest Management section of Health Canada's website.

MRLs established in Canada may be found using the Maximum Residue Limit Database on the Maximum Residue Limits for Pesticides webpage. The database allows users to search for established MRLs, regulated under the *Pest Control Products Act*, both for pesticides or for food commodities.

International Situation and Trade Implications

The MRLs proposed for zoxamide in Canada are the same as corresponding Codex MRLs.¹ Table 2 compares the MRLs proposed for zoxamide in Canada with corresponding American tolerances. American tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide. A listing of established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website, by pesticide or commodity.

Table 2 Comparison of Canadian MRLs, American Tolerances and Codex MRLs (where different)

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)
Crop Group 9, Cucurbit Vegetables	2.0	1.0

Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for zoxamide up to 75 days from the date of publication of this document. Please forward your comments to Publications (see the contact information on the cover page of this document). The PMRA will consider all comments received before making a final decision on the proposed MRLs. Comments received will be addressed in a separate document linked to this PMRL. The established MRLs will be legally in effect as of the date that they are entered into the Maximum Residue Limit Database.

¹ The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

Appendix I

Summary of Field Trial Data Used to Support the Proposed Maximum Residue Limits

Residue data for zoxamide in tomatoes and representative cucurbit vegetables of Crop Group 9 (cantaloupe, zucchini and cucumber) were submitted to support the MRLs on imported tomatoes and cucurbit vegetables (Crop Group 9). In addition, a processing study in treated tomatoes was reviewed to determine the potential for concentration of residues of zoxamide into processed commodities.

Maximum Residue Limit(s)

The recommendation for MRLs for zoxamide was based upon the residues observed in crop commodities treated according to label directions or to exaggerated rates in the exporting country, and the guidance provided in the OECD MRL Calculator. Table A1 summarizes the residue data used to calculate the proposed MRLs for imported tomatoes and cucurbit vegetables (Crop Group 9).

Table A1 Summary of Field Trial and Processing Data Used to Support MRLs

Commodity	Application Method/ Total Application Rate (g a.i./ha) ¹	Preharvest Interval (days)	Minimum Zoxamide Residues (ppm)	Maximum Zoxamide Residues (ppm)	Experimental Processing Factor
Tomato	Foliar broadcast/ 2.25-2.95	5	0.054	1.18	Puree: 0.3X Paste: 0.7X
Cantaloupe	Foliar broadcast/ 1.79-1.81	0	0.0335	0.731	Not applicable
Zucchini	Foliar broadcast/ 1.76-1.80		0.0236	0.393	
Cucumber	Foliar broadcast/ 1.79-1.83		<0.010	0.129	

¹ a.i. = active ingredient

Following the review of all available data, MRLs as proposed in Table 1 are recommended to cover residues of zoxamide. Residues of zoxamide in these imported crop commodities at the proposed MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.